



Canadian Food
Inspection Agency

Agence canadienne
d'inspection des aliments

Canadian Food Inspection Agency



Our vision:

To excel as a science-based regulator, trusted and respected by Canadians and the international community.

Our mission:

Dedicated to safeguarding food, animals and plants, which enhances the health and well-being of Canada's people, environment and economy.

Vaccination as a control strategy for Canada

CROSS BORDER LIVESTOCK HEALTH FMD EXERCISE

JULY, 22, 2011

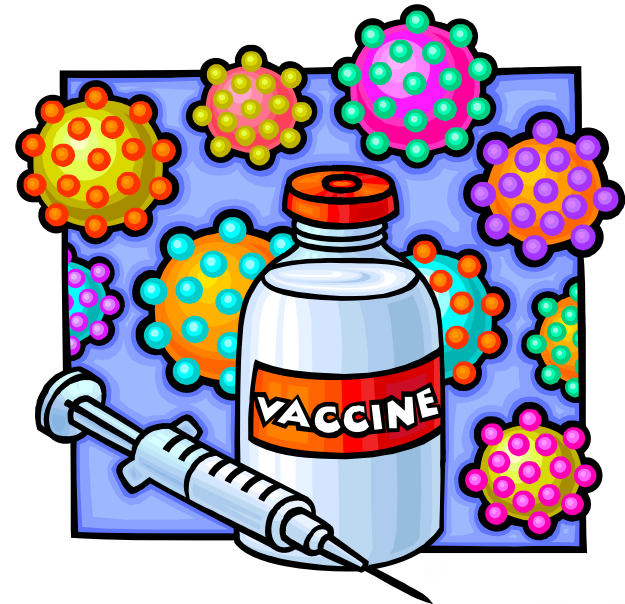
Dorothy W Geale DVM PhD BSc(Hons)

Tom Smylie DVM BSc(Hons)

*Foreign Animal Disease & Emergency Management
Terrestrial Animal Health Division*

Canada

1. Introduction
2. FMD HSP Provisions for Vaccination
3. FMD Vaccination Procedures
4. Minimizing FMD impact
5. Conclusions



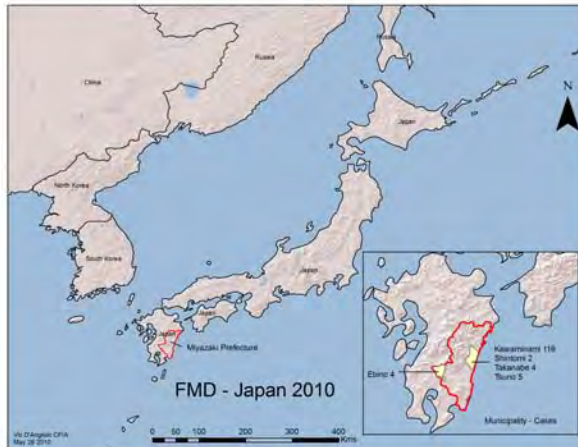
1. Introduction

- Unlike 2001, vaccination is no longer a “last resort” control measure



1. Introduction

- Japan 2010 used vaccination-to-die control measure



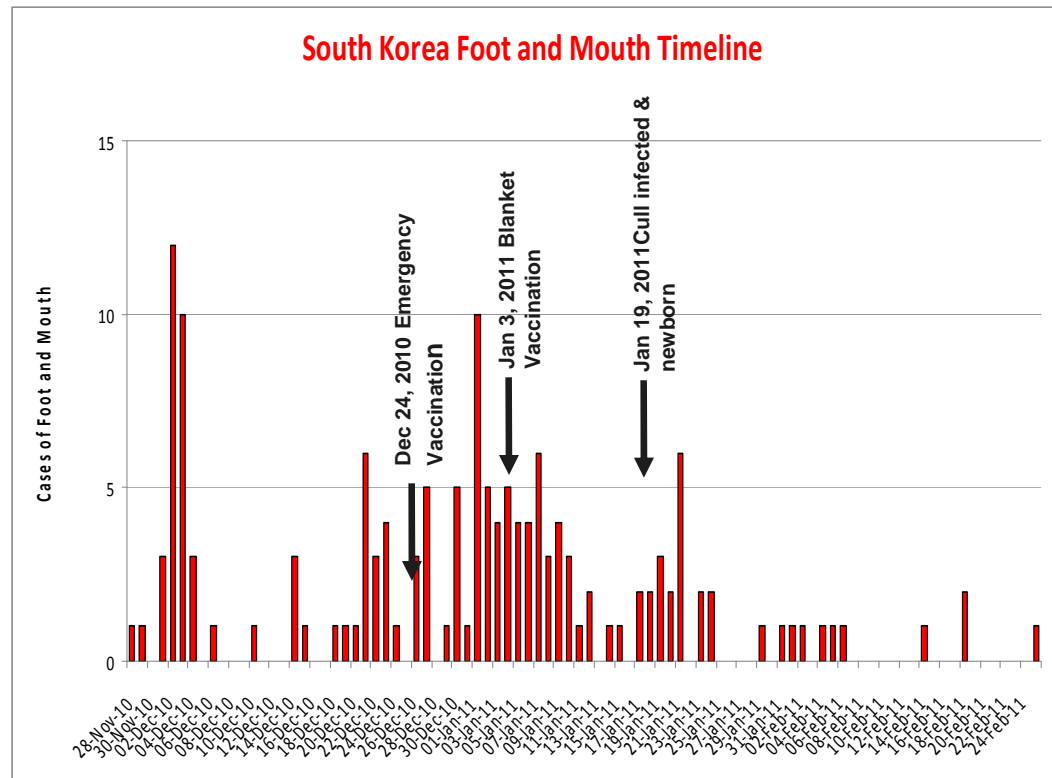
1. Introduction

- Korea went from vaccinate-to-die (2010) to vaccinate-to-live (2011)

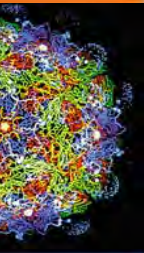


© Reuters

South Korea Foot and Mouth Timeline



1. Introduction



Vaccine source

Vaccine held by MIFAFF in Korea	300,000 doses
Vaccine from NAFMDVB	2,500,000 doses
Vaccine from Netherlands	1,000,000 doses
Vaccine from Belgium	800,000 doses
Vaccine from Merial & Intervet	22,900,000 doses
Total secured	27,500,000 doses



2019/05/17 10:19



CFIA's objective [Section 3]

- to eliminate FMD as swiftly as possible to limit the social and economic impact while respecting the environment and regain FMD country freedom-without vaccination status without delay.

CFIA's policy [OIE Code & EU principles]

- QUARANTINE, MOVEMENT CONTROL, TRACING & SURVEILLANCE with STAMPING OUT [includes high risk exposed animals but not contiguous cull]
- plus EMERGENCY VACCINATION under specific geographic situations and management practices (under study)
- where REGIONALIZATION/ZONING is implemented in order to minimize trade ramifications.



2. FMD Hazard Specific Plan Provisions for Vaccination [Appendices]

North American Modelling Team

- Canada, Mexico & USA use North American Animal Disease Spread Model

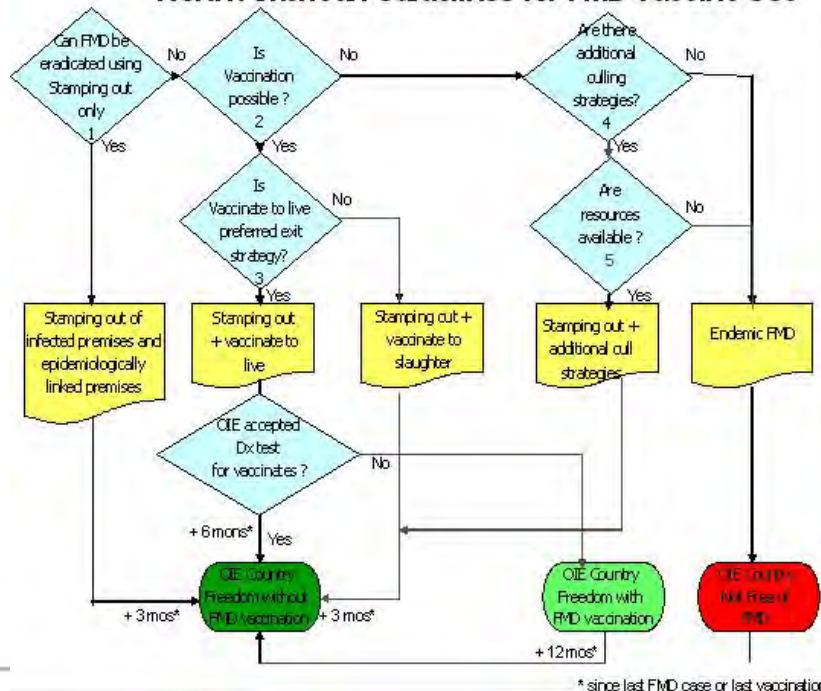


2. FMD Hazard Specific Plan Provisions for Vaccination [Section 3]

Drivers for vaccination in FMD HSP

- *World Organization for Animal Health (OIE)*
- *North American FMD Vaccine Bank GUIDELINES 2011*
- *Expert Group & Stakeholder consultation*

North American Guidelines for FMD Vaccine Use



2. FMD Hazard Specific Plan Provisions for Vaccination [Section 3]

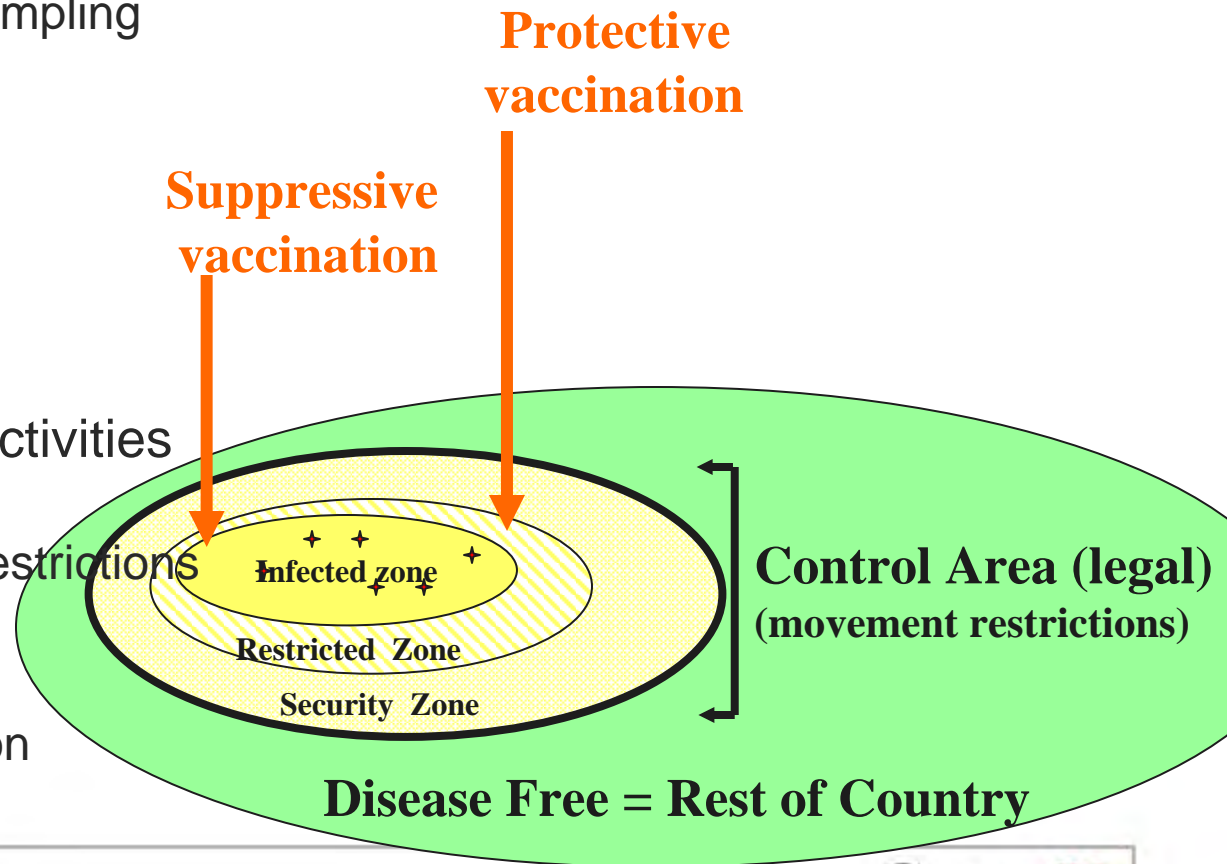
CFIA response [HSP 4 + 5]

- Individual Premises Activities

- ✓ Diagnostic sampling
- ✓ Quarantine
- ✓ Tracing
- ✓ Evaluation
- ✓ Depopulation
- ✓ C&D

- Control Area Activities

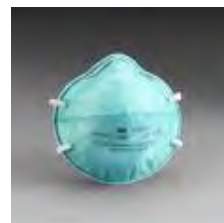
- ✓ Declaration
- ✓ Movement Restrictions
- ✓ Zoning
- ✓ Surveillance
- ✓ +/- Vaccination



4. FMD Vaccination Procedures

SOP – under development

1. Introduction
2. General Information
3. Vaccine acquisition [import, transport from Manufacturer]
4. Vaccine storage and monitoring
5. Activation of the NAFMDVB
6. Vaccine transport from NAFMDVB
7. Vaccination Equipment
8. Vaccination administration
9. Surveillance of Vaccinated herds
10. Re-vaccination [if vaccinate to live]
11. Exit strategy Following Vaccination
12. Deactivation of Vaccine Storage
13. Disposition of Unused Vaccine
14. Vaccination Protocol



4. FMD Vaccination Procedures

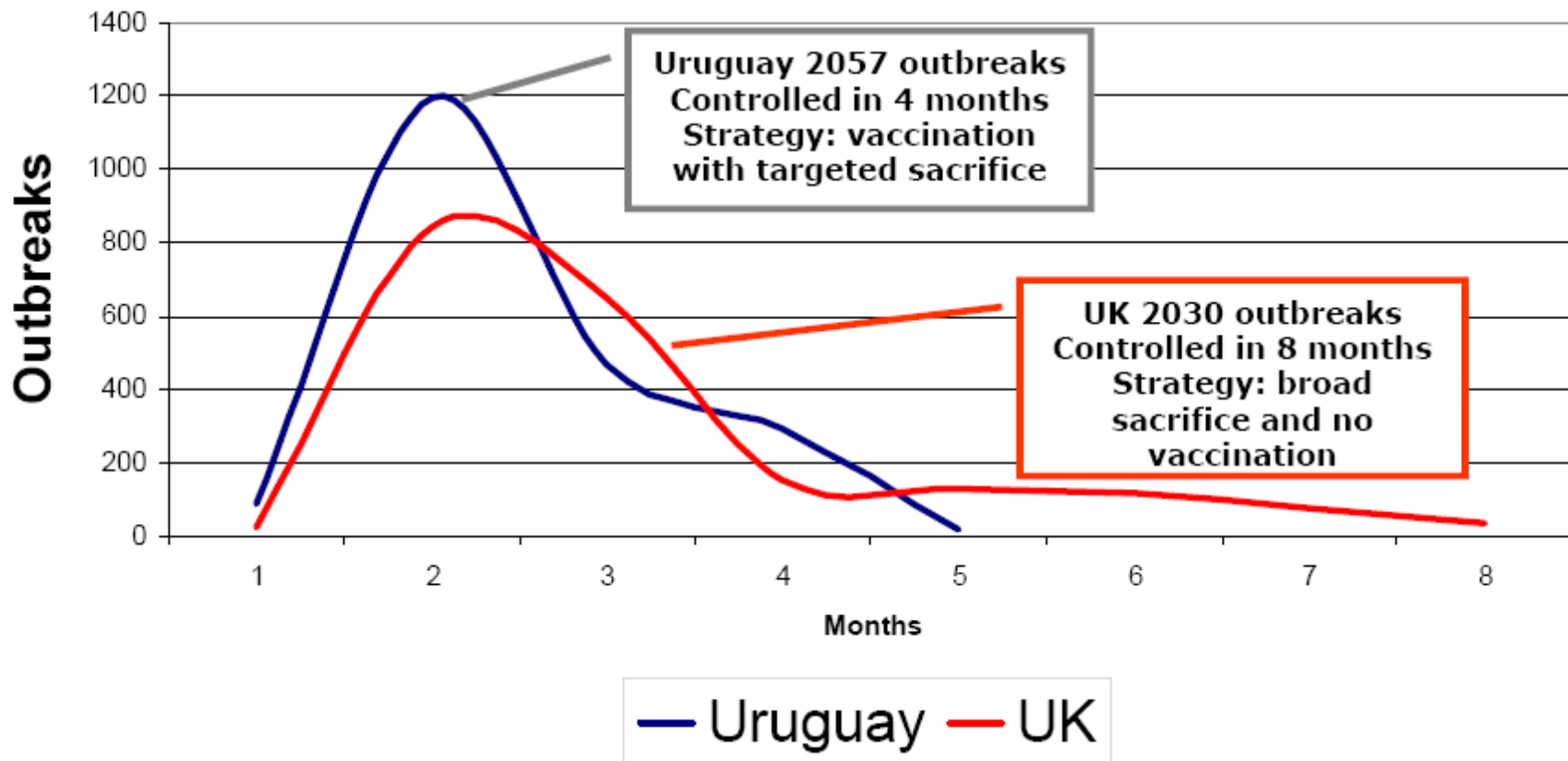
List of Documentation available

1. Forms to be developed as appendices for SOP – FMD specific
2. North American FMD VB Guidelines – June 2011
3. FMD Vaccination Appendices
 - i. Emergency FMD Vaccination Decision Tree/Matrix
 - ii. Prioritization of FMD Vaccination
 - iii. Animal Populations at Risk
4. North American Modelling Team – Project # of doses
5. SOP for Receiving, Storage & Distribution/Warehouse Site for Emergency Response (used in Ontario, June 2009)



5. Conclusions

FMD in Uruguay and the UK 2001



5. Conclusions



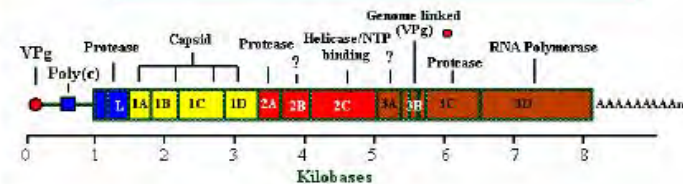
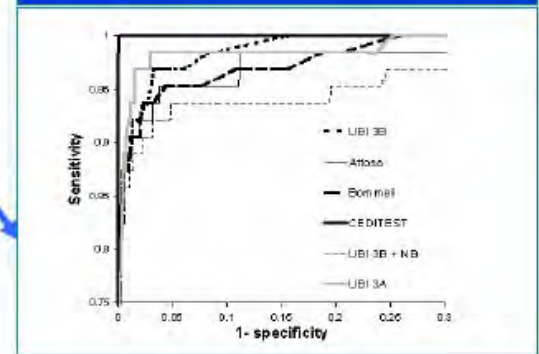
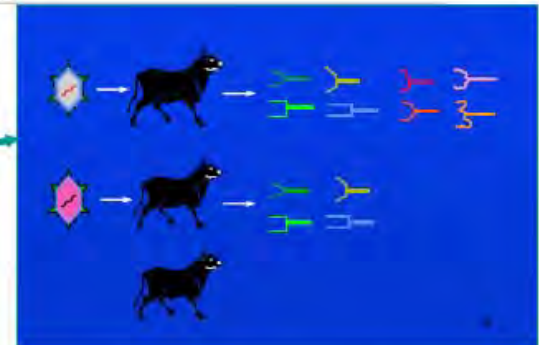
Post-vaccination testing DIVA

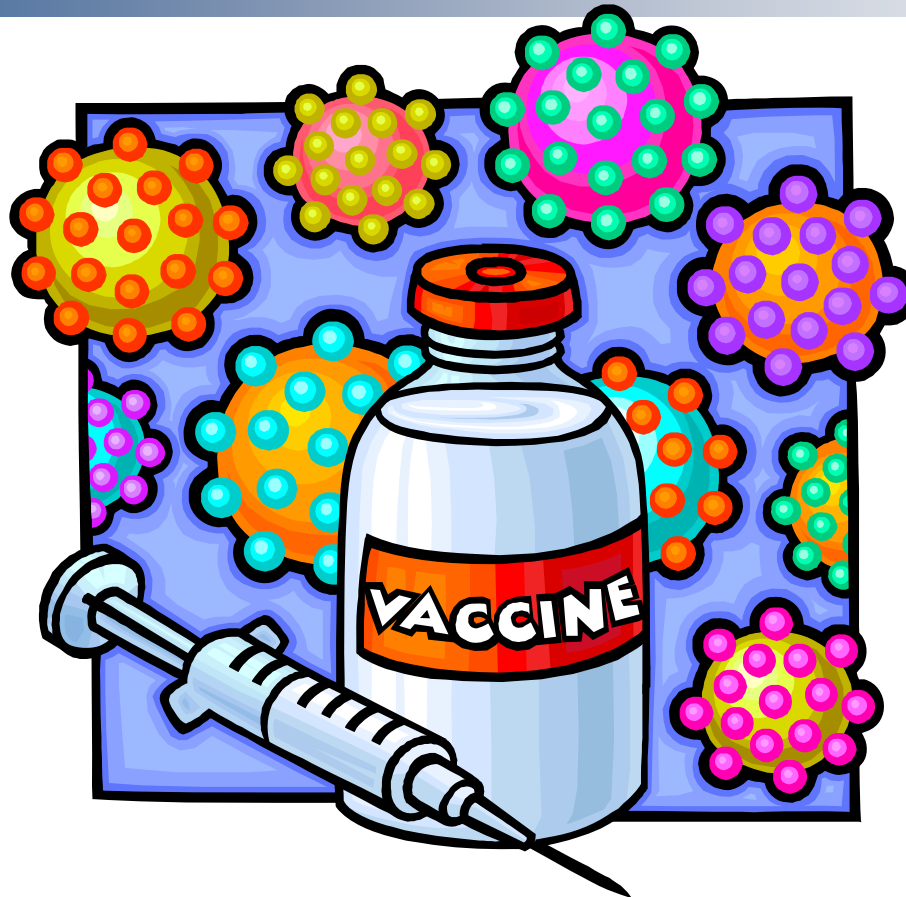
- Vaccines - purified
- Tests for the detection of antibodies against NSP
- Guidelines

vaccinated
no virus



vaccinated
and virus





QUESTIONS?

